FATENT COOPERATION TREATY

To:

From the	INTERNAT	IONAL	BUREAU
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner

US Department of Commerce United States Patent and Trademark Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

Date of mailing (day/month/year) 27 February 2002 (27.02.02)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/AU01/00849	Applicant's or agent's file reference FP14725
International filing date (day/month/year) 13 July 2001 (13.07.01)	Priority date (day/month/year) 14 July 2000 (14.07.00)
Applicant	
BROWN, Tracey et al	

l	1.	The designated Office is hereby notified of its election made:
İ		X in the demand filed with the International Preliminary Examining Authority on:
		11 February 2002 (11.02.02)
		in a notice effecting later election filed with the International Bureau on:
l	2.	The election X was
		was not
		made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
		·

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Cécile CHATEL (Fax 338.87.40)

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

FATENT COOPERATION TRE/

	From the INTERNATIONAL BUREAU	
PCT	То:	
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 12 March 2002 (12.03.02)	DAVIES COLLISON CAVE Level 3 303 Coronation Drive Milton, Queensland 4064 AUSTRALIE	
Applicant's or agent's file reference FP14725	IMPORTANT NOTIFICATION	
International application No.	International filing date (day/month/year)	
PCT/AU01/00849	13 July 2001 (13.07.01)	
The following indications appeared on record concerning:		
	X the agent the common representative	
Name and Address GRIFFITH HACK	State of Nationality State of Residence	
Level 3 509 St Kilda Rd	Telephone No.	
Melbourne, VIC 3004 Australia	+61 3 9243 8300	
Austrana	Facsimile No.	
	+61 3 9243 8333	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the	ha fallowing abanga has been recorded concerning:	
X the person the name the add		
Name and Address	State of Nationality State of Residence	
DAVIES COLLISON CAVE		
Level 3 303 Coronation Drive	Telephone No.	
Milton, Queensland 4064 Australia	+61 7 3368 2255	
Australia	Facsimile No. +61 7 3368 2262	
	Teleprinter No.	
3. Further observations, if necessary: A new agent has been appointed, as indicated in should read: 2496346/EJH.	Box 2. The new agent's file reference	
4. A copy of this notification has been sent to:		
X the receiving Office	the designated Offices concerned	
the International Searching Authority	X the elected Offices concerned	
X the International Preliminary Examining Authority	X other: Former agent	
The least of Decree of Manage	Authorized officer	
The International Bureau of WIPO 34, chemin des Colombettes	Eric LESOT (Fax 338.87.40)	
1211 Geneva 20, Switzerland		
Facainaile No. : (44.00) 740.44.05	T-1- 1 N /41 00\ 000 00 00	

Form PCT/IB/306 (March 1994)

PATENT .

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Tracey Brown Richard Fox

Serial No.: 10/088,774

Filed: March 18, 2002

For: HYALURONAN AS A CYTOTOXIC

AGENT, DRUG PRE-SENSITIZER AND

CHEMO-SENSITIZER IN THE TREATMENT OF DISEASE

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: DACO:002US

EXPRESS MAIL MAILING LABEL

NUMBER EV 119099469 US

DATE OF DEPOSIT March 13, 2003

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

BOX PCT

Commissioner for Patents Washington, D.C. 20231

Sir:

In response to the Notification of Missing Requirements under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US), dated January 17, 2003, there are enclosed herewith:

- (a) Declaration executed on behalf of Tracey Brown and Richard Fox;
- (b) A Power of Attorney on behalf of Meditech Research Limited;
- (c) Our check in the amount of \$130.00 to cover the surcharge for late filing; and
- (d) A copy of Notification of Missing Requirements under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US).

An Assignment to Meditech Research Limited and a check for \$40.00 are being filed

under separate cover.

If the check is inadvertently omitted, or should any additional fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason relating to the enclosed materials, or should an overpayment be included herein, the Commissioner is authorized to deduct or credit said fees

from or to Fulbright & Jaworski Deposit Account No.: 50-1212/DACO:002US.

Please date stamp and return the accompanying postcard to evidence receipt of these documents.

Respectfully submitted,

REG. No. 37,257

Steven L. Highlander Reg. No. 37,642

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P. 600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

Date:

March 13, 2003

Applicant's or

PATENT COOPERATION TREATY PCT

REC'D 1 4 NOV 2002

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2496346/EJH/aal	FOR FURTHER See Notification of Transmittal of International Preliminary ACTION Examination Report (Form PCT/IPEA/416).		
International Application No.	International Filing Dat (day/month/year)	e Priority Date (day/month/year)	
PCT/AU01/00849	13 July 2001	14 July 2000	
International Patent Classification (IPC) or	national classification and	d IPC	
Int. Cl. 7 A61K 47/36, A61P 35/00			
Applicant MEDITECH RESEARCH LIMIT	ΓED et al		
is transmitted to the applicant according	to Article 36.	ared by this International Preliminary Examining Authority and	
 This REPORT consists of a total of 3 sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). 			
These annexes consist of a total of 3 sheet(s).			
3. This report contains indications relating to the following items:			
I X Basis of the report	I X Basis of the report		
II Priority	Priority		
III Non-establishment of opi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
IV Lack of unity of invention	ty of invention		
V X Reasoned statement unde citations and explanations	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
VI Certain documents cited	Certain documents cited .		
VII Certain defects in the inte	Certain defects in the international application		
VIII Certain observations on the international application			
Date of submission of the demand	<u>n</u>	ate of completion of the report	
11 February 2002	1	O October 2002	
Name and mailing address of the IPEA/AU	A	uthorized Officer	
AUSTRALIAN PATENT OFFICE O BOX 200, WODEN ACT 2606, AUSTRALIA -mail address: pct@ipaustralia.gov.au -acsimile No. (02) 6285 3929 G.R.PETERS Telephone No. (02) 6283 2184			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU01/00849

I.	Basis of the report		
1.	With regard to the elements of the international application:*		
	the international application as originally filed.		
	X the description, pages 1-50, as originally filed,		
	pages, filed with the demand,		
	pages, received on with the letter of		
	X the claims, pages, as originally filed,		
	pages, as amended (together with any statement) under Article 19,		
	pages, filed with the demand,		
	pages 51-53, received on 23 October 2002 with the letter of 23 October 2002		
	X the drawings, pages $1/14-14/14$, as originally filed,		
	pages, filed with the demand,		
	pages, received on with the letter of		
	the sequence listing part of the description:		
	pages , as originally filed		
	pages , filed with the demand		
	pages, received on with the letter of		
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).		
	the language of publication of the international application (under Rule 48.3(b)).		
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).		
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:		
	contained in the international application in written form.		
	filed together with the international application in computer readable form.		
	furnished subsequently to this Authority in written form.		
	furnished subsequently to this Authority in computer readable form.		
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.		
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished		
4.	The amendments have resulted in the cancellation of:		
	the description, pages		
	the claims, Nos.		
	the drawings, sheets/fig.		
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**		
*	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).		
**	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/AU01/00849

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	. Statement		
	Novelty (N)	Claims 1-18	YES
		Claims	NO
	Inventive step (IS)	Claims 1-18	YES
		Claims	NO
	Industrial applicability (IA)	Claims 1-18	YES
		Claims	NO

2. Citations and explanations (Rule 70.7)

Novelty (N) and Inventive Step (IS) claims 1-18.

The amended claims now emphasise that the invention is concerned with a method of treatment which prevents the formation of secondary neoplasms *via* proliferation of the cellular proliferative disease by pre-sensitising cells of the proliferative disease to the effect of a chemotherapeutic agent by the administration of Hyaluronic Acid and wherein the HA has a molecular weight of greater than or equal to 750,000 Daltons.

None of the citations describe such a method or use a HA having a molecular weight of greater than or equal to 750,000 Daltons. Consequently the present claims are regarded as being novel and inventive.

There is no doubt about Industrial Applicability of the claims.

CLAIMS

- 1. A method of treatment of a cellular proliferative disease in a subject, said method comprising the steps of:-
 - (i) pre-sensitizing cells of the proliferative disease to the effect of a chemotherapeutic agent by administering an effective amount of hyaluronan, optionally in combination with a pharmaceutical carrier, adjuvant or vehicle, wherein said hyaluronan has a molecular weight equal to or greater than 750,000; and
 - (ii) subsequently administering a therapeutically effective amount of a chemotherapeutic agent, also optionally in combination with a pharmaceutical carrier, adjuvant or vehicle, provided that the said agent is not paclitaxel;

wherein the formation of secondary neoplasms *via* proliferation of the cellular proliferative disease is thereby prevented.

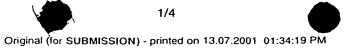
- 2. The method of Claim 1, wherein the cellular proliferative disease is selected from the group consisting of cancers of the breast, lung, prostate, kidney, skin, neural, ovary, uterus, liver, pancreas, epithelial, gastric, intestinal, exocrine, endocrine, lymphatic, haematopoietic system or head and neck tissue.
- 3. The method of Claim 1 or 2, wherein the subject is a mammal.
- 4. The method of Claim 3, wherein the mammal is selected from the group consisting of bovine, canine, equine, porcine and human.
- 5. The method of Claim 3, wherein the mammal is a human.



- 6. The method of any one of Claims 1 to 5, wherein the chemotherapeutic agent is selected from the group consisting of carmustine (BCNU), chlorambucil (Leukeran), cisplatin (Platinol), Cytarabine, doxorubicin (Adriamycin), fluorouracil (5-FU), methotrexate (mexate), CPT111, etoposide, pliamycin (Mithracin) and taxanes.
- 7. The method of Claim 6, wherein the chemotherapeutic agent is fluorouracil (5-FU).
- 8. The method of Claim 6, wherein the chemotherapeutic agent is doxorubicin, also known as adriamycin.
- 9. The method of any one of Claims 1 to 8, wherein the administration is oral, topical or parenteral.
- 10. The method of Claim 9, wherein parenteral administration is by subcutaneous injection, by aerosol, by intravenous, intramuscular, intrathecal, intracranial or intrasternal injection, or by infusion techniques.
- 11. The method of any one of Claims 1 to 10, wherein the bio-availability of the chemotherapeutic agent is enhanced.
- 12. Use of hyaluronan and a chemotherapeutic agent in the preparation of a medicament for preventing the formation of secondary neoplasms *via* proliferation of the cellular proliferative disease in a subject, wherein said hyaluronan has a molecular weight equal to or greater than 750,000 and said agent is not paclitaxel, and wherein HA presensitises cells of the proliferative disease to the effect of a chemotherapeutic agent.
- The use of Claim 12, wherein the cellular proliferative disease is selected from the group consisting of cancers of the breast, lung, prostate, kidney, skin, neural, ovary, uterus, liver, pancreas, epithelial, gastric, intestinal, exocrine, endocrine, lymphatic, haematopoietic system or head and neck tissue.

- The use of any one of Claims 12 or 13, wherein the chemotherapeutic agent is selected from the group consisting of carmustine (BCNU), chlorambucil (Leukeran), cisplatin (Platinol), Cytarabine, doxorubicin (Adriamycin), fluorouracil (5-FU), methotrexate (mexate), CPT111, etoposide, pliamycin (Mithracin) and taxanes.
- 15. The use of Claim 14, wherein the chemotherapeutic agent is fluorouracil (5-FU).
- 16. The use of Claim 14, wherein the chemotherapeutic agent is doxorubicin, also known as adriamycin.
- 17. The use of any one of Claims 12 to 16, wherein the medicament is adapted for oral, topical or parenteral administration.
- 18. The use of Claim 17, wherein the medicament is adapted for parenteral administration by subcutaneous injection, by aerosol, by intravenous, intramuscular, intrathecal, intracranial or intrasternal injection, or by infusion techniques.





0	For receiving Office use only	
0-1	International Application No.	•
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92
		(updated 01.03.2001)
0-5	Petition	·
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Australian Patent Office (RO/AU)
0-7	Applicant's or agent's file reference	FP14725
1	Title of invention	HYALURONAN AS A CYTOTOXIC AGENT, DRUG
	į.	PRE-SENSITIZER AND CHEMO-SENSITIZER IN
	*#***	THE TREATMENT OF DISEASE
H	Applicant	
II-1	This person is:	applicant only
11-2	Applicant for	all designated States except US
11-4	Name	MEDITECH RESEARCH LIMITED
II-5	Address:	Level 1
		Sterling House
		8 Parliament Place
	*:	West Perth, Western Australia 6005
		Australia
II-6 	State of nationality	AU
11-7	State of residence	AU
111-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
111-1-4	Name (LAST, First)	BROWN, Tracey
III-1-5	Address:	23 Norwood Street
	·	Flemington, Victoria 3031
		Australia
III-1-6	State of nationality	AU
III-1-7	State of residence	AU



2/4 Original (for SUBMISSION) - printed on 13.07.2001 01:34:19 PM

III-2	Applicant and/or inventor		
III-2-1	This person is:	applicant and inventor	
111-2-2	Applicant for	US only	
III-2-4	Name (LAST, First)	FOX, Richard	
III-2-5	Address:	171 Powlett Street	
		East Melbourne, Victoria 3002	
		Australia	
111-2-6	State of nationality	AU	
III-2-7	State of residence	AU	
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent	
IV-1-1	Name	GRIFFITH HACK	
IV-1-2	Address:	Level 3	
		509 St Kilda Rd	
		Melbourne, Victoria 3004	
		Australia	
IV-1-3	Telephone No.	+61 3 9243 8300	
IV-1-4	Facsimile No.	+ 61 3 9243 8333	
IV-1-5	e-mail	ghmelb@griffithhack.com.au	
V V-1	Designation of States		
	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT	
V-2	(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW	



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V-5	Precautionary Designation Statement		
	In addition to the designations made		
	under items V-1, V-2 and V-3, the	·	
	applicant also makes under Rule 4.9(b)		
	all designations which would be	1.	
	permitted under the PCT except any		
	designation(s) of the State(s) indicated		
	under item V-6 below. The applicant		
	declares that those additional	i	
	designations are subject to confirmation		
	and that any designation which is not		
	confirmed before the expiration of 15		
	months from the priority date is to be regarded as withdrawn by the applicant		
	at the expiration of that time limit.		
V-6	Exclusion(s) from precautionary	NONE	
• •	designations	NONE	
VI-1	Priority claim of earlier national		
•••	application		•
VI-1-1	Filing date	14 July 2000 (14.07.	2000)
VI-1-2	Number	_	. 2000)
VI-1-3	Country	PQ8795	
VI-1-3		AU	
VI-2	Priority document request		
	The receiving Office is requested to prepare and transmit to the	VI-1	
	International Bureau a certified copy of		•
	the earlier application(s) identified	}	
	above as item(s):		•
VII-1	International Searching Authority Chosen	Australian Patent Of	fice (ISA/AU)
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the	-	
VIII-2	inventor Declaration as to the applicant's		
V111-Z	entitlement, as at the international filing	-	
	date, to apply for and be granted a	•	
	patent		
VIII-3	Declaration as to the applicant's	_	
	entitlement, as at the international filing		**
	date, to claim the priority of the earlier		
VIII-4	application		
VIII-4	Declaration of inventorship (only for the purposes of the designation of the	- ·	
	United States of America)		
VIII-5	Declaration as to non-prejudicial		
	disclosures or exceptions to lack of	-	
	novelty	·	<u> </u>
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	4	-
IX-2	Description	50	-
IX-3	Claims	2	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	14	
IX-7	TOTAL	71	
	<u> </u>		

PCT REQUEST

	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	√	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract	6	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		Rom.
X-1-1	Name	MEDITECH RESEARCH L	IMITED U
X-2	Signature of applicant, agent or common representative		
X-2-1	Name (LAST, First)	BROWN, Tracey	·Bow.
X-3	Signature of applicant, agent or common representative		andres
X-3-1	Name (LAST, First)	FOX, Richard	
X-4	Signature of applicant, agent or common representative	Aug.	
X-4-1	Name	GRIF FI TH HACK	
X-4-2	Name of signatory	Stuart James Boyer	•
X-4-3	Capacity	Patent Attorney	

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AU
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	
	the International Bureau	

The demand must be filed directly	the competent International Preliminary Examining Authority or, if two or more Authorities are compe	etent with
the one chosen by the applicant.	name or two-letter code of that Authority may be ind	

IPI	EA/	■.

PCT

CHAPTER II

DEMAND

Under Article 31 of the Patent Cooperation Treaty:
The Undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For I	nternational Preliminary E	xamining Authority u	,
Identification of IPEA		Date of receipt of DI	EMAND
Box No. 1 IDENTIFICATION OF THE INTERNATIONAL APPLICATION			Applicant's or agent's file reference 2496346/EJH
International application No. PCT/AU01/00849	International filing date (da 13 July 2001 (13-07-2001)	ty/month/year)	(Earliest) Priority date (day/month/year 14 July 2000
Title of invention	,	and chemo-sensiti	izer in the treatment of disease
Box No. II APPLICANT(S)			
Meditech Research Limited	given name: for a legal entity, full officostal code and name of country.)	cial designation.	Telephone No.:
Level 1 Sterling House 8 Parliament Place			Facsimile No.:
West Perth Western Australia Australia	6005		Email.:
State (that is, country) of nationality: Australia	/ A	State (that is, country) of Australia	
Name and address: (Family name followed by go BROWN, Tracey 23 Norwood Street Flemington Victoria 3031 Australia	iven name: for a legal entity, full offici	al designation. The address m	ust include postal code and name of country.)
State (that is, country) of nationality: Australia		tate (that is, country) of Australia	residence:
Name and address: (Family name followed by give FOX, Richard 171 Powlett Street East Melbourne Victoria 3002 Australia		l designation. The address mu:	st include postal code and name of country.)
State (that is, country) of nationality: Australia	r r	ate (that is, country) of r ustralia	esidence:
x Further applicants are indicated o		·	



Sheet No. 2



International application no. PCT/AU01/00849

Box No. III AGENT	OR COMMON REPRESENTATIVE: OR ADDRES	SS FOR CORRESPONDENCE
The following person is x	agent common representative	
and has been appointed e	earlier and represents the applicant(s) also for internationa	al preliminary examination.
ł	and any earlier appointment of (an) agent(s)/common rep	
is hereby appointed,	specifically for the procedure before the International Pre	
the agent(s)/common	n representative appointed earlier. Solution of the state of the stat	Telephone No.:
	tal code and name of country.)	+61-7-3368 2255
HIICHEC E I-I I	DAUITO COLLIGON GAME	Facsimile No.:
HUGHES, E John L ARGAET, Victor P	DAVIES COLLISON CAVE Level 3	+61-7-3368 2262
THOMPSON, Paul M	303 Coronation Drive	
11101/11 5014, 1 auf 1/1	Milton Queensland 4064	Email: mail@davies.com.au
	Australia	managaavies.com.au
Address for corres	spondence: Mark this check-box where no agent or com	non representative is/has been appointed and
	used instead to indicate a special address to which corresp	
	OR INTERNATIONAL PRELIMINARY EXAMIN	ATION
Statement concerning amendme	ents:*	
1. The applicant wishes the	international preliminary examination to start on the bas	is of:
the international app	plication as originally filed	•
the description x	as originally filed	
	as amended under Article 34	
the claims	as originally filed	·
	as amended under Article 19 (together with any account	ampanying statement)
Ä	as amended under Article 34	ompanying statement)
		· •
the drawings	as originally filed	
	as amended under Article 34	·
	s any amendment to the claims under Article 19 to be cons	
months from the prio made under Article 1 check-box may be ma	is the start of the international preliminary examination ority date unless the International Preliminary Examining 19 or a notice from the applicant that he does not wish to a parked only where the time limit under Article 19 has not year.	Authority receives a copy of any amendment make such amendments (Rule 69. 1(d)). This et expired.)
originally filed or, where a co under Article 34 are received	ed, international preliminary examination will start on the opy of amendments to the claims under Article 19 and/or at by the International Preliminary Examining Authority be oreliminary examination report, as so amended.	amendments of the international application
anguage for the purposes of inte	rnational preliminary examination: English	
x which is the language	ge in which the international application was filed.	
	ge of a translation furnished for the purposes of internation	nal search.
which is the language	ge of publication of the international application.	
which is the language	ge of the translation (to be) furnished for the purposes of it	nternational preliminary examination.
Box No. V ELECTION	OF STATES	
	ble States (that is, all States which have been designated	and which are bound by Chapter II - C.
PCT)		Use the opening of Chapter 11 of the
Excluding the following S	tates which the applicant wishes not to elect:	



Sheet No. 3

International application no. PCT/AU01/00849

Box No. VI CHECK LIST				· · · · · · · · · · · · · · · · · · ·	
The demand is accompanied by the following earlier Box No. IV, for the purposes of international p			ed to in	For International P Examining Author received	
1. translation of international application	:	sheets			
2. amendments under Article 34	:	sheets			
3. copy (or, where required, translation) of amendments under Article 19	:	sheets			
4. copy (or, where required, translation) of statement under Article 19	:	sheets			
5. letter	:	sheets	1		
6. other (specify)	:	sheets	1		
The demand is also accompanied by the item(s)	marked below:		<u> </u>		
1. fee calculation sheet		4.	statemen	t explaining lack of s	ignature
2. separate signed power of attorney		5.		le and or amino acid : readable form	sequence listing in
3. copy of general power of attorney: reference number, if any:		6.	other (spe	ecify):	
Box No. VII SIGNATURE OF APPL	ICANT, AGE	NT OR COM	MON RE	PRESENTATIVE	
Next to each signature, indicate the name of the person signing	and the capacity in	which the person si	gns (if such co	spacity is not obvious from	reading the demand).
For and on behalf of the Applicants E John L HUGHES					
For Internal	ional Prelimir	ary Examinin	e Authori	ty use only	
Date of actual receipt of DEMAND:					
2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):					
The date of receipt of the demand is AF from the priority date and item 4 or 5, b			hs		e applicant has been ormed accordingly.
The date of receipt of the demand is Wingle Rule 80.5.	THIN the perio	d of 19 months	from the p	riority dated as extend	ded by virtue of
Although the date of receipt of the demais EXCUSED pursuant to Rule 82.	and is after the e	expiration of 19	months fro	om the priority dated,	the delay in arrival
	For Internati	onal Bureau us	e only	·	
Demand received from IPEA on:					,

GRIFFITH HACK -5 FEB 2002	ENT COOPER	RATION TR	TY PCT/AU01/
1 2002		From the INTER	RNATIONAL BUREAU
2 SJB PCT 3 NOTICE INFORMING THE APP COMMUNICATION OF THE IN APPLICATION TO THE DESIGN (PCT Rule 47.1(c), first s Date of mailing (day/month/year) 24 January 2002 (24.01.02)	NTERNATIONAL NATED OFFICES	To: GRIFFITH HAM Level 3 509 St Kilda F Melbourne, V AUSTRALIE	Rd //IC 8004
Applicant's or agent's file reference FP14725		11	MPORTANT NOTICE
International application No. PCT/AU01/00849	International filing da 13 July 2001		Priority date (day/month/year) 14 July 2000 (14.07.00)
Applicant MEDITECH RESEARCH L	LIMITED et al		

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice: KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AG,AL,AM,AP,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CA,CH,CN,CO,CR,CU,CZ,DE,DK,DM,DZ,EA,EC, EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA, MD,MG,MK,MN,MW,MX,MZ,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this notice is a copy of the international application as published by the International Bureau on 24 January 2002 (24.01.02) under No. WO 02/05852

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and the PCT Applicant's Guide, Volume II.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.91.11

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		ansmittal of International Search Report as well as, where applicable, item 5 below.	
FP14725	ACTION			
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/AU01/00849	13 July 2001		14 July 2000	
Applicant MEDITECH RESEARCH LIN	AITED et al			
This international search report has been prep Article 18. A copy is being transmitted to the		Searching Authority an	d is transmitted to the applicant according to	
This international search report consists of a t	otal of 4 sheets.			
X It is also accompanied by a c	copy of each prior art docu	ment cited in this repor	t.	
1. Basis of the report				
which it was filed, unless otherwis	se indicated under this item	1.	f the international application in the language in	
(Rule 23.1(b)).	is carried out on the basis of	of a translation of the if	nternational application furnished to this Authority	
 With regard to any nucleotide and carried out on the basis of the sequ 		disclosed in the interna	tional application, the international search was	
contained in the internation	nal application in written f	orm.		
filed together with the inte	rnational application in co	mputer readable form.		
furnished subsequently to	this Authority in written fo	rm.	•	
furnished subsequently to t	this Authority in computer	readable form.		
the statement that the subse		sequence listing does n	ot go beyond the disclosure in the international	
the statement that the infor	mation recorded in compu	er readable form is ide	ntical to the written sequence listing has been	
2. Certain claims were found	unsearchable (See Box I)			
3. Unity of invention is lackin	g (See Box II).	•		
4. With regard to the title,	the text is approved as sul	omitted by the applican	ıt.	
·	the text has been establish	ed by this Authority to	read as follows:	
<i>s</i>				
5. With regard to the abstract, X	he text is approved as subi	nitted by the applicant		
		one month from the dat	3.2(b), by this Authority as it appears in Box III. e of mailing of this international search report,	
6. The figure of the drawings to be publish	ned with the abstract is Fig	ure No.	·	
a	s suggested by the applica	nt.	X None of the figures	
t	ecause the applicant failed	to suggest a figure		
	pecause this figure better ch	naracterizes the invention	on	



Intern

International application No.

PCT/AU01/00849

A.	CLASSIFICATION OF SUBJECT MATTER	₹			
Int. Cl. 7:	A61K 47/36, A61P 35/00				
According to	International Patent Classification (IPC) or to bo	th national classification and IPC			
В.	FIELDS SEARCHED				
Minimum docu IPC: A61K	umentation searched (classification system followed by	classification symbols)			
	n searched other than minimum documentation to the e	xtent that such documents are included in th	ne fields searched		
AU; IPC AS	base consulted during the international search (name of	of data base and, where practicable, search to	erms used)		
WPAT, CAI	PLUS, MEDLINE; keywords:hyaluronic acid	l, Hyaluronan, HA, drug resist+, car	ncer, chemothera+		
C.	DOCUMENTS CONSIDERED TO BE RELEVAN	T			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
P,X	WO 00/41730 A (MEDITECH RESEARC) Whole document	H LIMITED) 20 July 2000	1-12		
X	WO 99/02151 A (HYAL PHARMACEUT) 21 January 1999. Whole document	ICAL CORPORATION)	2, 4-12		
х	WO 97/40841 A (HYAL PHARMACEUT) 6 November 1997. Whole document	2, 4-12			
X	Further documents are listed in the continuati	on of Box C X See patent fami	ily annex		
* Specia	l categories of cited documents:	" later document published after the into	ernational filing date or		
not cor "E" earlier	nent defining the general state of the art which is insidered to be of particular relevance application or patent but published on or after	priority date and not in conflict with the understand the principle or theory understand the principle or theory understand the principle or theory understand the principle or	he application but cited to derlying the invention claimed invention cannot		
"L" docum or whice	ernational filing date ent which may throw doubts on priority claim(s) ch is cited to establish the publication date of r citation or other special reason (as specified)	inventive step when the document is t	aken alone claimed invention cannot		
"O" docum	ent referring to an oral disclosure, use, exhibition	combined with one or more other such combination being obvious to a person	n documents, such		
"P" docume					
	Date of the actual completion of the international search Date of mailing of the international search report				
20 August 20 Name and maili	001 ng address of the ISA/AU	Authorized officer	17 2001		
PO BOX 200, W E-mail address:	AUSTRALIAN PATENT OFFICE O BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au acsimile No. (02) 6285 3929 Authorized officer G.R.PETERS Telephone No. (02) 6283 2184				

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International application No.
PCT/AU01/00849

C (Continua	ion). DOCUMENTS CONSIDERED TO BE RELEVANT						
C (Continua Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to					
Category	chanon of document, whit indication, where appropriate, of the relevant passages						
Х	CA 2089621 A (NORPHARMCO INC) 17 August 1994. Whole document.						
	·						
X	WO 91/04058 A (NORPHARMCO INC) 4 April 1991. Whole document.						
X	Klein E.S et al, "Effects of hyaluronic acid on experimental tumor uptake of 5-fluorouracil" Regional Cancer Research (1994), 7 pp 163-164. Whole document.	2, 4-12					
	9 ~ .						
•		-					



International application No. PCT/AU01/00849

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Paten	nt Document Cited in Search Report			Pate	ent Family Member		·
wo	00/41730	AU	24231/00				
wo	99/02151	AU	82031/98	CA	2208924		
wo	97/40841	AU	25644/97	CA	2175282		
wo	91/04058	AU	14850/97	AU	64330/90	AU	52274/93
		BR	2042034	CN	1051503	EP	445255
		EP	656213	US	5827834	US	5830882
•	•	US	5985851	US	5990095	US	6022866
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